```
* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:42:45 ON 23 SEP 2008

=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                             ENTRY    SESSION
FULL ESTIMATED COST                                           0.21       0.21

FILE 'CAPLUS' ENTERED AT 17:43:12 ON 23 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 23 Sep 2008  VOL 149 ISS 13
FILE LAST UPDATED: 22 Sep 2008  (20080922/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> e us20070066848/pn
E1            1     US20070066846/PN
E2            2     US20070066847/PN
E3            1 --> US20070066848/PN
E4            1     US20070066849/PN
E5            1     US20070066850/PN
E6            1     US20070066851/PN
E7            1     US20070066852/PN
E8            1     US20070066853/PN
E9            1     US20070066854/PN
E10           1     US20070066855/PN
E11           1     US20070066856/PN
E12           1     US20070066857/PN

=> s e3
L1            1 US20070066848/PN

=> dall
DALL IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d all
```

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:472504 CAPLUS
DN 143:16219
ED Entered STN: 03 Jun 2005
TI Organo-electronic functional material and use thereof
IN Akashi, Nobutaka; Shirota, Yasuhiko
PA Bando Chemical Industries, Ltd., Japan
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM H05B033-22
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 22, 76
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051047	A1	20050602	WO 2004-JP17440	20041117
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2005190993	A	20050714	JP 2004-331491	20041116
	JP 3881996	B2	20070214		
	EP 1696709	A1	20060830	EP 2004-799796	20041117
	R: DE, FR, GB				
	CN 1883233	A	20061220	CN 2004-80034444	20041117
	US 20070066848	A1	20070322	US 2006-580052	20060519 <--
PRAI	JP 2003-391882	A	20031121		
	JP 2003-404721	A	20031203		
	WO 2004-JP17440	W	20041117		

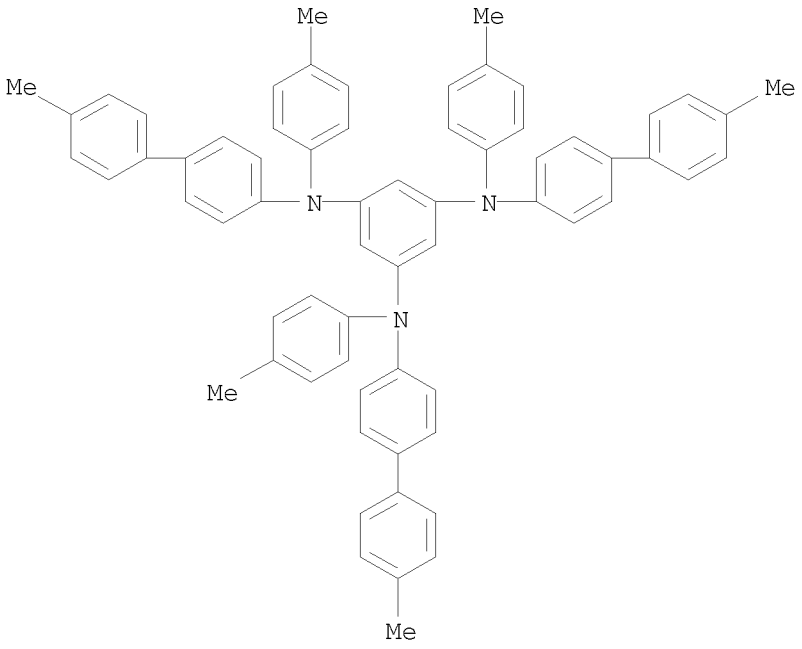
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005051047	ICM	H05B033-22
	IPCI	H05B0033-22 [ICM,7]
	IPCR	C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H05B0033-14 [I,C*]; H05B0033-14 [I,A]; H05B0033-22 [I,C*]; H05B0033-22 [I,A]
	ECLA	C09K011/06; H01L051/00M6F; H05B033/14; M09K; M09K; T01L; T01L
JP 2005190993	IPCI	H01L0051-50 [I,A]; C09K0011-06 [I,A]
	IPCR	C09K0011-06 [I,A]; C09K0011-06 [I,C*]; H05B0033-14 [I,A]; H05B0033-14 [I,C*]; H05B0033-22 [I,A]; H05B0033-22 [I,C*]
	FTERM	3K007/AB05; 3K007/AB11; 3K007/DB03; 3K007/FA01
EP 1696709	IPCI	H05B0033-22 [ICM,7]
	IPCR	H05B0033-22 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H05B0033-14 [I,C*]; H05B0033-14 [I,A]; H05B0033-22 [I,C]

```
 CN 1883233      IPCI   H05B0033-22 [I,A]
                 IPCR   H05B0033-22 [I,C]; H05B0033-22 [I,A]
 US 20070066848  IPCI   C07C0211-54 [I,A]; C07C0211-00 [I,C*]; H01L0051-54
                        [I,A]; H01L0051-50 [I,C*]
                 NCL    564/434.000; 257/040.000; 257/E51.051; 313/504.000;
                        313/506.000; 428/690.000; 428/917.000
AB   The invention relates to an organo-electronic functional material
     comprising a tris(arylamino)benzene of the general formula: (I) (wherein A
     and B are groups of the general formula: (II) (in which R is a C1-C6 alkyl
     or a C5 or C6 cycloalkyl; and n is 0, 1, 2 or 3), which groups may be
     identical with or different from each other), and that in a cyclic
     voltagram, the organo-electronic functional material exhibits a deviation
     of peak current of 50-cyclic curve, measured at a sweep rate of 20 mV/s,
     falling within ±10% of the average of peak current.  This organo-electronic
     functional material has photo-electron conversion capability, being
     reversible in oxidation-reduction and by itself can form an amorphous film.
     Further, not only is the glass transition temperature thereof high but also
even
     in repeated oxidation-reduction, the change of peak current value is slight,
     ensuring stability.  Therefore, the organo-electronic functional material
     can be appropriately used as, for example, a hole transport material in
     various electronic devices including organic electroluminescent devices.
ST   organo electronic functional material electroluminescent device
IT   Electroluminescent devices
        (organic; organo-electronic functional material and its application for
        electroluminescent devices)
IT   147-14-8, Copper phthalocyanine   2085-33-8, Alq3   138143-23-4
     185690-41-9, 4,4',4''-Tris[N,N-(2-naphthyl)phenylamino]triphenylamine
     RL: DEV (Device component use); USES (Uses)
        (organo-electronic functional material and its application for
        electroluminescent devices)
IT   852641-11-3P
     RL: DEV (Device component use); PRP (Properties); SPN (Synthetic
     preparation); PREP (Preparation); USES (Uses)
        (organo-electronic functional material and its application for
        electroluminescent devices)
IT   104216-55-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (organo-electronic functional material and its application for
        electroluminescent devices)
RE.CNT  6     THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Mitsui Toatsu Chemicals Inc; JP 07-33717 A 1995 CAPLUS
(2) Sony Corp; JP 2003178883 A 2003 CAPLUS
(3) Sony Corp; JP 200368470 A 2003
(4) Sony Corp; JP 200495491 A 2004
(5) Tdk Corp; EP 0611148 A1 1994 CAPLUS
(6) Tdk Corp; JP 07-48974 A 1995


=> delete select y
ALL E# DEFINITIONS DELETED

=> sel l1 rn 1-
E1 THROUGH E6 ASSIGNED

=> d sel
E1           1     104216-55-9/BI
E2           1     138143-23-4/BI
E3           1     147-14-8/BI
```

```
E4            1     185690-41-9/BI
E5            1     2085-33-8/BI
E6            1     852641-11-3/BI


=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       6.44       6.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -0.80      -0.80

FILE 'REGISTRY' ENTERED AT 17:44:08 ON 23 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   22 SEP 2008  HIGHEST RN 1051655-89-0
DICTIONARY FILE UPDATES:  22 SEP 2008  HIGHEST RN 1051655-89-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s e1-e6
             1 104216-55-9/BI
               (104216-55-9/RN)
             1 138143-23-4/BI
               (138143-23-4/RN)
             1 147-14-8/BI
               (147-14-8/RN)
             1 185690-41-9/BI
               (185690-41-9/RN)
             1 2085-33-8/BI
               (2085-33-8/RN)
             1 852641-11-3/BI
               (852641-11-3/RN)
L2           6 (104216-55-9/BI OR 138143-23-4/BI OR 147-14-8/BI OR 185690-41-9/
               BI OR 2085-33-8/BI OR 852641-11-3/BI)

=> d ide 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L2   ANSWER 1 OF 6  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   852641-11-3  REGISTRY
ED   Entered STN:  21 Jun 2005
```

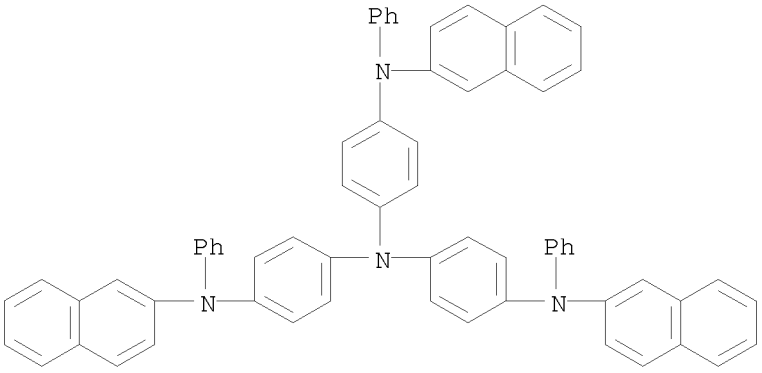
CN 1,3,5-Benzenetriamine, N1,N3,N5-tris(4'-methyl[1,1'-biphenyl]-4-yl)-
N1,N3,N5-tris(4-methylphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,5-Benzenetriamine, N,N',N''-tris(4'-methyl[1,1'-biphenyl]-4-yl)-
N,N',N''-tris(4-methylphenyl)- (9CI)
MF C66 H57 N3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

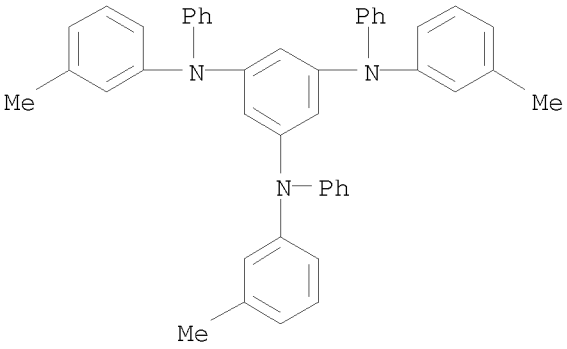
L2 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 185690-41-9 REGISTRY
ED Entered STN: 04 Feb 1997
CN 1,4-Benzenediamine, N1-2-naphthalenyl-N4,N4-bis[4-(2-
naphthalenylphenylamino)phenyl]-N1-phenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,4-Benzenediamine, N-2-naphthalenyl-N',N'-bis[4-(2-
naphthalenylphenylamino)phenyl]-N-phenyl- (9CI)
OTHER NAMES:
CN 2TNATA
CN 4,4',4''-Tris[2-naphthyl(phenyl)amino]triphenylamine
CN 4,4',4''-Tris[N,N-(2-naphthyl)phenylamino]triphenylamine
MF C66 H48 N4
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

184 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
187 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 138143-23-4 REGISTRY
ED Entered STN: 03 Jan 1992
CN 1,3,5-Benzenetriamine, N1,N3,N5-tris(3-methylphenyl)-N1,N3,N5-triphenyl-
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,5-Benzenetriamine, N,N',N''-tris(3-methylphenyl)-N,N',N''-triphenyl-
(9CI)
OTHER NAMES:
CN 1,3,5-Tris(3-methylphenylphenylamino)benzene
MF C45 H39 N3
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL
(*File contains numerically searchable property data)

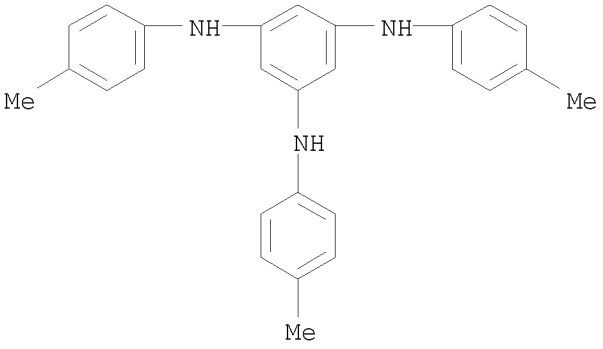


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN

RN 104216-55-9 REGISTRY
ED Entered STN: 13 Sep 1986
CN 1,3,5-Benzenetriamine, N,N',N''-tris(4-methylphenyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,3,5-Benzenetriamine, N,N',N''-tri-p-tolyl- (6CI)
OTHER NAMES:
CN 1,3,5-Tris[(4-methylphenyl)amino]benzene
CN N,N',N''-Tris(p-methylphenyl)-1,3,5-benzenetriamine
MF C27 H27 N3
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)

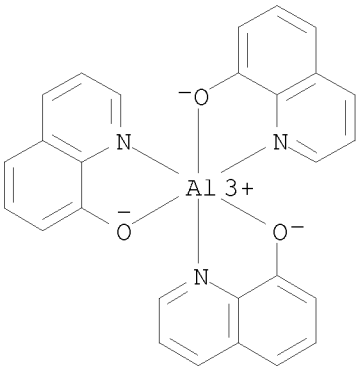


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 2085-33-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Aluminum, tris(8-quinolinolato-κN1,κO8)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aluminum, tris(8-quinolinolato)- (6CI, 7CI, 8CI)
CN Aluminum, tris(8-quinolinolato-N1,O8)-
OTHER NAMES:
CN 8-Hydroxyquinoline aluminum
CN Al 8Q
CN Alq3
CN Aluminum 8-hydroxyquinolinate
CN Aluminum oxinate
CN Aluminum tris(8-hydroxyquinolinate)
CN Aluminum tris(8-quinolinolate)
CN Aluminum, tris(8-hydroxyquinolinato)-
CN Hydroxyquinoline aluminum
CN Tri-8-quinolinolatoaluminum
CN Tris(8-hydroxyquinolato)aluminum
CN Tris(8-hydroxyquinolinate)aluminum
CN Tris(8-hydroxyquinolinato)aluminum
CN Tris(8-hydroxyquinolinol-N1,O8)aluminum
CN Tris(8-quinolinol)aluminum
CN Tris(8-quinolinolato)aluminum

CN Tris(8-quinolinolato)aluminum(III)
CN Tris-(8-hydroxyquinoline)aluminum
DR 11094-99-8, 24731-66-6
MF C27 H18 Al N3 O3
CI CCS, COM
LC STN Files: AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, MRCK*, PIRA, RTECS*, TOXCENTER, USPAT2, USPATFULL, USPATOLD
      (*File contains numerically searchable property data)
    Other Sources: EINECS**
      (**Enter CHEMLIST File for up-to-date regulatory information)



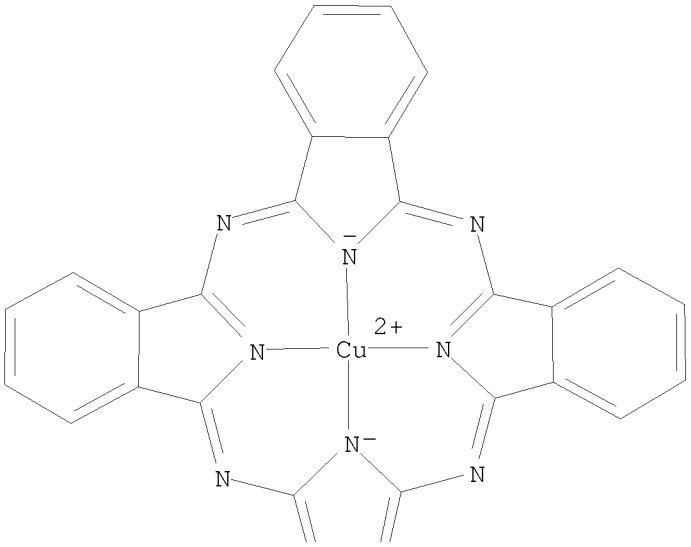
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7756 REFERENCES IN FILE CA (1907 TO DATE)
35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7783 REFERENCES IN FILE CAPLUS (1907 TO DATE)
44 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

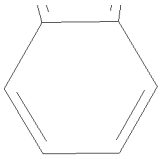
L2 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 147-14-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Copper, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,.ka
    ppa.N32]-, (SP-4-1)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 29H,31H-Phthalocyanine, copper complex
CN 29H,31H-Phthalocyanine, copper deriv.
OTHER NAMES:
CN (Phthalocyaninato)copper
CN α-Copper phthalocyanine
CN α-Copper phthalocyanine blue
CN α-Phthalocyanine blue
CN β-Copper phthalocyanine blue
CN β-Phthalocyanine blue
CN ε-Copper phthalocyanine
CN 127EPS
CN 405D
CN 7075M
CN 79S26C
CN 79S26C chip
CN Accosperse Cyan Blue GT
CN Acnalin Supra Blue G
CN Acramin Blue F 3G
CN Akrochem 626

CN Aqualine Blue
CN Aquis BW 3571
CN Arlocyanine Blue PS
CN Aztech Chemisperse Cyan 1541
CN B 4G-KR
CN B 702W
CN B 705H
CN B 736
CN B 8M25
CN Bahama Blue BC
CN Bahama Blue BNC
CN Bahama Blue Lake NCNF
CN Bahama Blue WD
CN Bermuda Blue
CN BFD 1121
CN BGS 1
CN BGSG-C
CN BL 1531
CN Blue 7110V
CN Blue GLA
CN Blue GLA-SD
CN Blue GLSM
CN Blue Microdis
CN Blue phthalocyanaine α-form
CN Blue pigment
CN Blue Toner GTNF
CN BRS 1
CN BRX
CN BT 4651
CN C.I. 74160
CN C.I. Pigment Blue 15
CN C.I. Pigment Blue 15:1
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 807622-86-2, 819860-69-0, 819860-85-0, 878390-73-9, 924902-00-1, 12767-67-8, 10482-39-0, 11097-56-6, 11129-84-3, 177529-54-3, 177646-05-8, 158853-86-2, 172308-31-5, 172826-46-9, 53802-06-5, 57916-96-8, 57425-52-2, 55819-49-3, 59518-91-1, 59966-88-0, 64333-57-9, 95660-31-4, 95917-74-1, 96024-35-0, 104921-99-5, 51331-32-9, 115284-42-9, 60880-51-5, 60937-79-3, 61489-66-5, 61489-77-8, 61537-10-8, 109675-77-6, 109766-95-2, 66121-19-5, 37223-81-7, 69431-77-2, 78170-27-1, 78413-59-9, 85255-95-4, 85256-77-5, 92909-14-3, 90452-20-3, 34567-54-9, 39378-75-1, 39473-10-4, 53028-77-6, 175386-67-1, 184007-78-1, 209343-48-6, 211564-97-5, 211925-80-3, 213190-86-4, 244244-86-8, 345338-75-2, 392718-62-6, 681847-78-9
MF C32 H16 Cu N8
CI CCS, COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17524 REFERENCES IN FILE CA (1907 TO DATE)
1286 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
17571 REFERENCES IN FILE CAPLUS (1907 TO DATE)
134 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.46	19.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'REGISTRY' ENTERED AT 17:44:56 ON 23 SEP 2008

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2008 HIGHEST RN 1051655-89-0
DICTIONARY FILE UPDATES: 22 SEP 2008 HIGHEST RN 1051655-89-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3   1 852641-11-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.55	19.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'CAPLUS' ENTERED AT 17:45:00 ON 23 SEP 2008

FILE COVERS 1907 - 23 Sep 2008 VOL 149 ISS 13
FILE LAST UPDATED: 22 Sep 2008 (20080922/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> S L3

L4 4 L3

=> DIS L4 1- IBIB IABS
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 11.64 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:156802 CAPLUS
DOCUMENT NUMBER: 148:225225
TITLE: Organic electroluminescent device
INVENTOR(S): Kobata, Tomokazu; Akashi, Nobutaka
PATENT ASSIGNEE(S): Bando Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 28pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008015963	A1	20080207	WO 2007-JP64727	20070720
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2008041869	A	20080221	JP 2006-213068	20060804

PRIORITY APPLN. INFO.: JP 2006-213068 A 20060804
OTHER SOURCE(S): MARPAT 148:225225
ABSTRACT:
The invention relates to an organic electroluminescent device comprising a hole transport layer which contains a tri(p-terphenyl-4-yl)amine represented by a general formula (R1-C6H4-p-C6H4-p-C6H4)(R2-C6H4-p-C6H4-p-C6H4)(R3-C6H4-p-C6H4-p-C6H4)N as a hole transporting agent, where R1, R2 and R3 independently

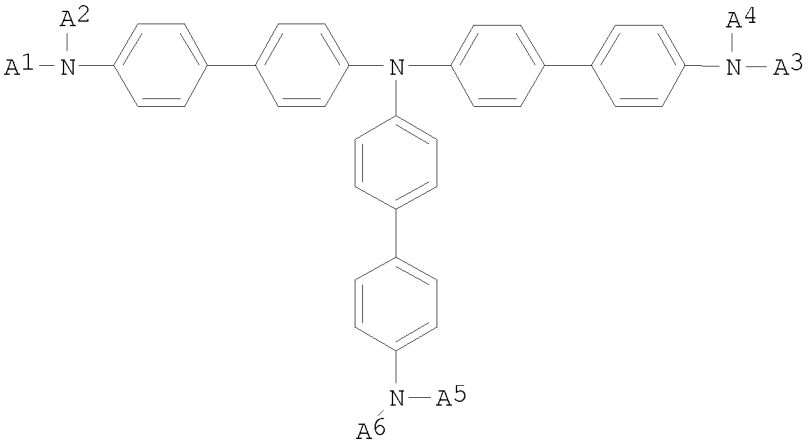
represents a hydrogen atom, an alkyl group, a cycloalkyl group which may have a substituent, or an aryl group which may have a substituent; and a hole injection layer which contains a hole injecting agent comprising an aromatic tertiary amine having an ionization potential ranging from 5.2 to 5.6 eV. The organic electroluminescent device can operate at a low operation voltage, with high efficiency and at a high luminance.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1129939 CAPLUS
DOCUMENT NUMBER: 143:413605
TITLE: Display element containing amine derivative
INVENTOR(S): Onishima, Yasunori
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005294188	A	20051020	JP 2004-110869	20040405
PRIORITY APPLN. INFO.:			JP 2004-110869	20040405

OTHER SOURCE(S): MARPAT 143:413605
GRAPHIC IMAGE:



I

ABSTRACT:
Disclosed is a display element comprising an organic layer consisting of a pos. hole transporting layer and a light emitting layer between anode and cathode, wherein said pos. hole transporting layer has a 3-layer structure, an intermediate layer of which contains I (A1-6 = H, Ph, naphthyl, etc.).

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:902553 CAPLUS

DOCUMENT NUMBER: 143:238366
TITLE: Organic electroluminescent device
INVENTOR(S): Kato, Tetsuya; Kojima, Kazushige
PATENT ASSIGNEE(S): Denso Corporation, Japan
SOURCE: U.S. Pat. Appl. Publ., 22 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050184657	A1	20050825	US 2005-61449	20050222
US 7374830	B2	20080520		
JP 2005276802	A	20051006	JP 2004-302986	20041018
KR 2006043123	A	20060515	KR 2005-14874	20050223
PRIORITY APPLN. INFO.:			JP 2004-49462 A	20040225
			JP 2004-302986 A	20041018

OTHER SOURCE(S): MARPAT 143:238366
ABSTRACT:
An organic EL device includes a pair of electrodes, a light emitter layer obtained by mixing a hole transporting material made of a tertiary amine compound, an electron transporting material and a light emitting additive. The tertiary amine compound constituting the hole transporting material has only one oxidation potential as measured by the cyclic voltammetry. A difference in ionization potential between the hole transporting material and electron transporting material of the light emitter layer is 0.35 eV or greater.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:472504 CAPLUS
DOCUMENT NUMBER: 143:16219
TITLE: Organo-electronic functional material and use thereof
INVENTOR(S): Akashi, Nobutaka; Shirota, Yasuhiko
PATENT ASSIGNEE(S): Bando Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051047	A1	20050602	WO 2004-JP17440	20041117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005190993	A	20050714	JP 2004-331491	20041116
JP 3881996	B2	20070214		
EP 1696709	A1	20060830	EP 2004-799796	20041117
R: DE, FR, GB				

CN 1883233	A	20061220	CN 2004-80034444		20041117
US 20070066848	A1	20070322	US 2006-580052		20060519
PRIORITY APPLN. INFO.:			JP 2003-391882	A	20031121
			JP 2003-404721	A	20031203
			WO 2004-JP17440	W	20041117

ABSTRACT:
The invention relates to an organo-electronic functional material comprising a tris(arylamino)benzene of the general formula: (I) (wherein A and B are groups of the general formula: (II) (in which R is a C1-C6 alkyl or a C5 or C6 cycloalkyl; and n is 0, 1, 2 or 3), which groups may be identical with or different from each other), and that in a cyclic voltagram, the organo-electronic functional material exhibits a deviation of peak current of 50-cyclic curve, measured at a sweep rate of 20 mV/s, falling within ±10% of the average of peak current. This organo-electronic functional material has photo-electron conversion capability, being reversible in oxidation-reduction and by itself can form an amorphous film. Further, not only is the glass transition temperature thereof high but also even in repeated oxidation-reduction, the change of peak
current value is slight, ensuring stability. Therefore, the organo-electronic functional material can be appropriately used as, for example, a hole transport material in various electronic devices including organic electroluminescent devices.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>